BTS®

Corporate Brochure

bts-biogas.com

SYNERGY & ENERGY

BTS

BTS Biogas

BTS DevCo

BTS Biogas, an Italian company with 25 years' experience in the field of anaerobic digestion, provides reliable high-performance technological solutions for the biogas and biomethane market.

BTS Biogas, a pioneer in the anaerobic digestion industry, with **over 270 plants created worldwide**, has established itself at a **global scale** in the **development**, **planning**, **construction**, and **maintenance of biogas and biomethane plants**.

In December 2022, **BTS DevCo** joined BTS Biogas. As a group company, it focuses on the development and direct management of its own plants.

The union of the two companies has a strategic value since it amplifies market presence, favours the development of new projects and consolidates the value and know-how of the Group.

Today, **BTS Biogas employs in Europe over 100 people**, distributed between the headquarters in Affi (Verona), the office in Bruneck (Bolzano), and its companies in France, the UK. In 2021 the company has established a new branch in the USA.

5 offices
IT - FR - UK - US

25+
Years of experience

270+
Plants in the world

150+
Assisted plants

25.000 smq
Warehouse and Logistics hub Laboratory

200 smq
Laboratory

170.000+
Analyses carried out per year

Anaerobic digestion plants valorise **livestock effluents, energy crops, agro-industrial by products,** and **OFMSW** (Organic Fraction of Municipal Solid Waste) to produce biogas, from which **biomethane**, as well as electrical and thermal energy, are obtained. The output of the process is digestate, a high-quality organic fertiliser that closes the loop in the circular economy.

EPC PROJECT

The core business of BTS Biogas is providing EPC plants (Engineering, Procurement, and Construction), customised to meet client specifications, from project development through to construction.

DEVELOPMENT OF PROJECTS

Thanks to its multidisciplinary **team of specialists** (biologists, agronomists, engineers, experts on regulations and legal aspects) BTS Biogas is able to **develop plants** starting from the research and enhancement of biomass, from the engineering of plants to obtaining permits.

ENGINEERING AND CONSTRUCTION

Characterised by high degrees of **efficiency** and **innovation**, BTS Biogas plants are designed according to **specific project needs**. The type of biomass to be used together with the need for **flexibility** and **reliability** of the plants guide the work of our engineers.

Thanks to a wide range of **cutting-edge technologies** for the pre and post treatment of biomass, the valorisation of biogas and the use of digestate, **BTS Biogas is able to provide tailor-made technical solutions**, which maximize production and consequently **plant profitability**.

AFTER SALES ACTIVITIES

ASSISTANCE SERVICES

The 24 h - 7/7 assistance services cover all operational areas of the plant

With BTS Biogas, customers can rely on a single **qualified interlocutor** to manage all aspects of the maintenance of their plants: **BIOLOGY**, **TECHNOLOGY** and **AUTOMATION**.

BTS Biogas provides complete support to plant operations that includes performance monitoring as well as innovative solutions to improve yields, **intervening both on plants of its own construction and other technologies**.

The daily goal of the company is to ensure a **high level of plant reliability**, minimize the idle time and ensure maximum return on investment.

Flexible and customised maintenance contracts, based on customer requirements, from single interventions to full O&M (Operations & Maintenance) management.

BIOLOGICAL SUPPORT

BTS Biogas offers a complete **biological assistance service**, supporting clients in the **monitoring and management** of the anaerobic digestion process.

To maximise plant efficiency our **biologist and agronomist** provide expert and innovative solutions to optimise feedstock, stabilise fermentation processes, and prevent any potential inhibitions.

ELECTROMECHANICAL SUPPORT

Experienced technicians, with many years in the biogas sector, and a wide range of spare parts in stock, guarantee prompt intervention to resolve any **electromechanical issues** in plants, whether they use **BTS Biogas technology** or systems from other manufactures.

AUTOMATION SUPPORT

BTS Biogas has an in-house **automation department** that offers rempte support and management for all plant components, from individual technologies to overall process control.

Our **control centre** is linked to plants both in Italy and abroad, enabling real-time monitoring, alarm resolution, and prompt response to any anomalies reported by the operator.

KEY POINTS

INNOVATIVE TECHNOLOGIES AND PATENTS

The combination of technical and biological expertise, together with extensive experience in plant management, has **enabled BTS Biogas to develop specialised technical solutions, some of which are patented and have become part of our plant standards**. The most significant include:

- **Service Box:** a technology for mixer maintenance without emptying the tank or gas release
- **Plug&Produce:** a fully tested plant control centre housed in a container, ready for immediate installation
- **PhenolTech**: a pre-treatment for facilities running 100% on olive pomace (patent pending).

Our **R&D department** explores cutting-edge solutions to optimize anaerobic digestion processes, with a focus on innovative challenges such as the **degradability of bioplastics**.

SPARE PARTS WAREHOUSE AND LOGISTICS CENTRE

The **operational headquarters** in Affi (VR) includes a **25,000 sqm logistics centre,** equipped with a vast spare parts warehouse, key assets for delivering the best possible support to our clients.

METANlab
THE FIRST BIOGAS LABORATORY IN ITALY

200 sqm of laboratory space, equipped with state-of-the-art technology to conduct all necessary analyses for managing anaerobic digestion and maximising yields. This includes the development of optimal feedstock recipes and the use of **micronutrients**: this is **METANlab**.

Our laboratory also provides fundamental scientific support in the design of plants, **simulating and in continuous research into biogas production of new substrates**, of which there are no available literature data, or **complex recipes**, determining possible **inhibitions and/or synergistic effects** in the microbiological process.

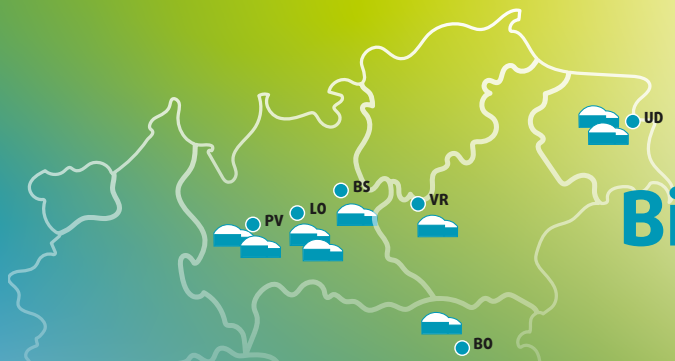
BTS DevCo:
OUR PLANTS FOR BIOMETHANE PRODUCTION

BTS DevCo, a BTS group company, **operates as a plant developer, an investor, and a renewable energy producer**, promoting the energy transition through **projects of circular economy** that transform livestock effluents and by-products into energy and organic fertilizer.

By producing biomethane - a fuel derived from the natural process of anaerobic digestion-**BTS DevCo** helps reduce greenhouse gas emissions, as it is **carbon-neutral.**

More specifically, BTS DevCo focuses on:

- **developing, designing, constructing, and managing** greenfield and brownfield biomethane projects
- **acquiring projects** for the construction of agricultural and OFMSW (Organic Fraction of Municipal Solid Waste) biomethane plants, either already authorised or in the process of authorisation
- **purchasing biogas plants** currently configured for cogeneration, with the aim of converting them to biomethane production
- **participating in special purpose companies**, in collaboration with institutional investors (investment funds, multi-utilities, etc.), for the construction and management of biomethane plants.



Biomethane Assets of BTS DevCo

30 bilions Sm³ year

9 Owned Plants

AGRICERERE (PV) **750 Sm³/h**	G.D.S. AGROENERGIA (LO) **250 Sm³/h**	SANT'AGATA BBE (BO) **500 Sm³/h**
AGRISORSE (PV) **750 Sm³/h**	METAGRI (BS) **250 Sm³/h**	GJO MARIE (UD) **300 Sm³/h**
BREMBIOENERGIE (LO) **250 Sm³/h**	CHIESONE (VR) **250 Sm³/h**	TONELLO CLEAN 3 (UD) **300 Sm³/h**

TECHNOLOGIES | BIOMETHANE REVAMPING
EPC | GENERAL CONTRACTOR | TURN-KEY PLANTS

Agricolture

Organic Waste

Industrial Byproducts

Plants

BTS Biogas Offices and Service

Key Reference | **Gazzo Veronese (VR)**

SOC. AGR. CHIESONE (REVAMPING)

Plant size: 250 Sm³/h of biomethane

INPUT

Livestock effluents and agricultural biomasses

DESCRIZIONE

The Chiesone plant in Gazzo Veronese (VR) has been in operation since 2012 and, following its **reconversion from biogas to biomethane**, became operational once more in December 2024. Managed by **BTS DevCo**, a BTS Group company established in 2022 to develop and operate biomethane plants, it represents one of BTS' first direct projects. The plant treats up to **35,750 tonnes of organic by-products per year**, producing 250 Sm^3/h of biomethane,equal to about 2,125,000 Sm^3 per year – enough to satisfy the consumption of over **1,500 households**!

It further generates **30,400 tonnes of digestate**, a natural fertiliser useful in agriculture. By producing renewable energy and recovering by-products, the plant **saves an estimated 4,500 tonnes of CO_2 equivalent each year**, contributing to environmental sustainability and to the region's circular economy.

BIOGAS USE

Biomethane production for injection into the grid

DIGESTATE USE

Spread on fields

Key Reference | **Livré-la-Touche (53)**

OUDON BIOGAZ

Plant size: 635 Sm³/h biomethane

INPUT

By-products from agricultural activities such as manure and straw

DESCRIPTION

Oudon Biogaz's objective is to sustainably utilise over **140,000 tonnes of effluents produced by its 70 farms**, generating 5.5 million Sm3 of biomethane annually, which is equivalent to the energy needs of **9,000 households in the Craon area.** The plant can also use **cereal waste and by-products from the local agro-industry.** The biomethane produced is fed into the national grid, preventing the release of around **14,000 tonnes of CO2**, equivalent to the greenhouse gas emissions from 5,500 cars (driving an average of 20,000 km per year). The digestate is applied to **7,700 hectares of farmland** managed by Oudon Biogaz's farms, reducing the need for chemical fertilisers. The Oudon Biogaz plant not only accounts for **25% of biogas production in the Mayenne Department** but also creates **10 jobs.**

BIOGAS USE

Putting it into the grid

DIGESTATE USE

Valorisation as an organic fertilizer

SOUTH MILFORD

Plant size: 500 kWel + 500 Sm³/h biomethane

DESCRIPTION

The plant is designed to **receive 60.000 tons per year of food waste and clippings**. After the pre-treatment modules and the fermenters for anaerobic digestion, a membrane purification system was engineered and developed: the latter allows the transformation of biogas into biomethane and to introduce it directly into the national gas grid. This allows the valorisation of the biogas produced with maximum efficiency and reduces CO_2 emissions to a minimum.

BIOGAS USE

Electricity production

Upgrading and production of biomethane for direct supply to the grid

VALORISATION OF THERMAL ENERGY

Heating of fermentation tanks

Upgrading unit and pasteurization system

DIGESTATE USE

Production of 50.000 tonnes per year of pasteurized liquid fertilizer

Key Reference | **Jessup, MD**

MARYLAND BIOENERGY CENTER

Plant size: 1.100 kWel + 1.105 Sm³/h biomethane

INPUT

125.000 t/y of food waste, FOG and other organic waste

DESCRIPTION

The plant is located at the Maryland Food Center, home to one of the largest industrial and logistical areas of the agri-food sector in the region and is able to process up to **125.000 tonnes per year of organic by-products (waste from fruit processing and vegetables, meat, baked goods, oil and fats, etc.) and wastewater from the food industry**.

The plant produces a **quantity of biomethane** equivalent to the **needs of 4.800 homes**.

BIOGAS USE

Production of biomethane for supply to the grid and automotive fuel.

VALORISATION OF THERMAL ENERGY

The thermal energy produced is used to heat digesters and the surplus sold to third parties

DIGESTATE USE

Nitrogen recovery and water purification thanks to a semipermeable membrane technology, partial reuse of purified water in industrial processes

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